Bain, Jim  Professor – ECE, MSE; Associate Director – DSSC  
(412)-268-3602  jbain@ece.cmu.edu

Keywords

Thin-film magnetic device design, fabrication, and testing; magnetic disk and tape recording

Balram, Nikhil  Adjunct Professor – ECE  
Bandola, Judy  Administrative Coordinator – ECE  
(412)-268-2224  judy@ece.cmu.edu

Bauer, Lujo  Associate Professor – ISR, ECE  
(412)-268-9745  lbauer@cmu.edu

Keywords

Computer security, access control, program monitoring, security automata, policy specification

Bauerle, Claire E  Administrative Coordinator – ECE  
(412)-268-7422  cbauerle@ece.cmu.edu
Beckmann, Nathan  Courtesy Professor – ECE; Assistant Professor – CSD 
beckmann@cs.cmu.edu

Berger, Luc  Professor Emeritus – Physics; Affiliated Faculty – DSSC 
lberger@andrew.cmu.edu

Berges, Mario  Assistant Professor – CEE; Courtesy Professor – ECE 
marioberges@cmu.edu

Bhagavatula, Vijayakumar  U.A. and Helen Whitaker Professor – ECE; Affiliated Faculty – DSSC; Associate Dean of Faculty and Graduate Affairs – CIT 
(412)-268-3026 kumar@ece.cmu.edu

Blanton, Shawn  Professor – ECE 
(412)-268-2987 rblanton@andrew.cmu.edu

Bollapragada, Vara  Post Doctoral Research Associate – ECE 
sbollapr@ece.cmu.edu

Boni, Dante  Equipment Technician – Nanofab 
dboni@andrew.cmu.edu

Bosle, Kevin  Senior Buyer – ECE 
(412)-268-9642 kbosle@ece.cmu.edu

Brown, Timothy X  Distinguished Service Professor – EPP, ECE +250 78 767 40 62 timxb@andrew.cmu.edu

Brumley, David J.  Associate Professor – CS; Director – CyLab; Professor – ECE 
dbrumley@ece.cmu.edu

Bryant, Randal  Professor – CS; Courtesy Professor – ECE 
(412)-268-8821 bryant@cs.cmu.edu

Keywords
Coding and signal processing for data storage, biometrics, pattern recognition

Bianchini, Ronald  Adjunct Professor – ECE 
(412)-968-9110 rpb@ece.cmu.edu

Keywords
Distributed fault-tolerant computing and computer networks

Bintrim, Grace  Administrative Coordinator – ECE 
(412) 268-9192 gbintrim@andrew.cmu.edu

Bishop, Cathy  Instructor – ECE 
mcbishop@andrew.cmu.edu

Blanton, Shawn  Professor – ECE 
(412)-268-2987 rblanton@andrew.cmu.edu
Keywords

Formal hardware and software verification

**Burns, Krista** Communications
Manager – ECE
(412)-268-5316
kgregan@ece.cmu.edu

Carley, Kathleen
Professor – ISR; Courtesy Professor – ECE
(412)-268-6016
kathleen.carley@cs.cmu.edu

Carley, Rick
ST Microelectronics
Professor – ECE; Affiliated Faculty – DSSC
(412)-268-3597
lrc@ece.cmu.edu

Keywords

CAD and design of analog signal processing circuits and MEMS systems

Carlsle, Martin
Teaching Professor – INI; Director of Academic Affairs – INI; Courtesy Professor – ECE
mcarlisl@andrew.cmu.edu

Chamanzar, Maysam
Assistant Professor – ECE
412-268-3390
mchamanz@andrew.cmu.edu

Chase, Steven
Courtesy Professor – ECE
schase@andrew.cmu.edu

Chen, Tsuhan
Adjunct Professor – ECE
tsuhan@ece.cmu.edu

Keywords

Optics, Neural Interfaces, Photonic Integrated Circuits, Plasmonics, Sensing

Choset, Howie
Professor – RI; Courtesy Professor – ECE
(412)-268-2495
choset@cs.cmu.edu

Keywords

Multimedia coding and streaming, computer vision, pattern recognition, computer graphics, multimodal biometrics

Chi, Yuejie
Adjunct Professor – ECE
yuejiec@andrew.cmu.edu

Chomas, Louis
Research Associate – DSSC; Cleanroom/MEMS Engineer – ECE
(412)-855-9077
lchomas@andrew.cmu.edu

Cho, Howie
Professor – RI; Courtesy Professor – ECE
(412)-268-2495
choset@cs.cmu.edu

Keywords

Hyper-redundant mechanisms, coverage, car-painting, de-mining, mobile robots, motion planning, hybrid controls

Chraska, Jacqueline
Administrative Coordinator – ECE
(412)-268-3096
chraska@ece.cmu.edu
Christin, Nicolas  Associate Research Professor – EPP; Assistant Research Professor – CyLab; Courtesy Professor – ECE  (412)-268-4432  nicolasc@andrew.cmu.edu

Chung, Pil Seung  Post Doctoral Research Associate – ChemE, DSSC  pil@cmu.edu  (412)-268-4035

Clarke Jr., Edmund  FORE Systems Professor – CS; Courtesy Professor – ECE  edmund.clarke@cs.cmu.edu

Keywords

Computer security, network security, online crime, security economics, usable security, algorithmic applications of game theory

Clarke Jr., Edmund  FORE Systems Professor – CS; Courtesy Professor – ECE  edmund.clarke@cs.cmu.edu

Keywords

Hardware and software verification, automatic theorem proving, symbolic computation

Cominos, Lenna  Corporate Relations – ECE  (412)-268-7689  cominos@andrew.cmu.edu

Condessa, Filipe  Post Doctoral Research Associate – ECE  fcondess@andrew.cmu.edu

Conley, Kelley  Research Administrator – ECE  kellyc@andrew.cmu.edu  412-268-3729

Copetas, Catherine  ECE/SCS Office of Engagement and Annual Giving – ECE  copetas@andrew.cmu.edu

Cowan, Christina  Director of Administrative Services & Office of the Department Head – ECE  ccowan@andrew.cmu.edu  (412)-268-3299

Cranor, Lorrie F  Professor – ISR, EPP; Courtesy Professor – ECE  lorrie@cs.cmu.edu  (412)-268-7534

Keywords

Usable privacy and security

Datta, Anupam  Associate Professor – CyLab, ECE  danupam@andrew.cmu.edu  (412)-268-8157

Davis, Robert  John and Claire Bertucci Distinguished Professor – MSE; Courtesy Professor – ECE  rfd@andrew.cmu.edu  (412)-268-7264

Decker, Dave  Manager of Web Development Services – ECE  ddecker@andrew.cmu.edu
De La Torre Frade, Fernando  Courtesy Professor – ECE; Research Scientist – RI ftorre@cs.cmu.edu
Dey, Anind K. Associate Professor – HCII; Courtesy Professor – ECE anind@cs.cmu.edu
Dolan, John  Courtesy Professor – ECE; Senior Systems Scientist – RI (412)-268-7988 jmd@cs.cmu.edu

Keywords
mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing

Du, Jian  Post Doctoral Research Associate – ECE (412)-268-3052 jiand@andrew.cmu.edu

Eckhardt, Dave  Courtesy Professor – ECE; Assistant Teaching Professor – CS davide+receptionist@cs.cmu.edu
Elgersma, Steve  Senior Systems & Software Engineer – ECE (412)-268-9531 elgersma@ece.cmu.edu
Erdogmus, Hakan  Associate Teaching Professor – ECE hakan.erdogmus@sv.cmu.edu

Faloutsos, Christos  Professor – CS; Courtesy Professor – ECE (412)-268-1457 christos@cs.cmu.edu

Keywords
Databases, data mining, multimedia indexing, performance evaluation

Falsafi, Babak  Adjunct Professor – ECE, CS babak.falsafi@epfl.ch

Fanti, Giulia  Assistant Professor – ECE gfanti@andrew.cmu.edu
Fassinger, Dan P.  IT Manager – ECE (412)-268-4745 danfas@ece.cmu.edu
Fatahalian, Kayvon  Courtesy Professor – ECE; Assistant Professor – CS (412) 268-1234 kayvonf@cmu.edu
Fedder, Gary Howard M.  (412)-268-8443  fedder@ece.cmu.edu
Wilkoff Professor – ECE, RI; Co-Director – MEMS; Affiliated Faculty – DSSC

Keywords
Microelectromechanical systems (MEMS), RF MEMS, inertial/bio/chemical sensors, MEMS CAD, micro-robotics

Feenstra, Randy  (412)-268-6961  feenstra@andrew.cmu.edu
Professor – Physics; Courtesy Professor – ECE

Keywords
Molecular beam epitaxy, scanning tunneling microscopy

Ferris, Sherri  (412) 268-4632  sferris@andrew.cmu.edu
Administrative Coordinator – ECE

Fox, Toni  (412) 268-1657  tonif@andrew.cmu.edu
Sponsored Research Assistant – CyLab

Franchetti, Franz  (412)-268-8297  franzf@ece.cmu.edu
Professor – ECE; Faculty Director of ITS – ECE

Keywords
Automatic performance tuning; automatic software libraries generation; code generation for multicore CPUs, high-performance systems (HPC), GPUs, FPGA-acceleration; logic-in-memory and 3DIC systems; domain-specific languages and compilers

Fredrikson, Matt  (412) 268-3992  mfredrik@andrew.cmu.edu
Assistant Professor – ISR, CS; Courtesy Professor – ECE

Keywords
Security, privacy, formal methods, and programming languages.

Frost, Brittany  412-268-1212  bfrost@andrew.cmu.edu
Senior Sponsored Research Assistant – CyLab

Frost, Donna  412-268-3407  dfrost@andrew.cmu.edu
International Scholar Coordinator – ECE
Furuta, Masaki  Post Doctoral Research Associate – ECE  mfuruta@ece.cmu.edu

Gamble, Andrew  Laboratory Electronics Supervisor – DSSC  (412)-268-1110

Ganger, Greg  Affiliated Faculty – CSD; Jatras Professor – ECE, CSD; Director – PDL  ganger@ece.cmu.edu

Keywords

cloud computing, storage/file systems, operating systems, distributed systems

Garba, Aminata  Assistant Teaching Professor – ECE  +250 78 152 04 72

Geiger, Kristen  Senior Research Administrator – ECE  (412) 268-3836

Gellman, Andrew J.  Lord Professor – ChemE; Professor – Chemistry; Affiliated Faculty – DSSC  (412)-268-3848

Ghose, Saugata  Systems Scientist – ECE  (412)-268-9192

Gibbons, Phil  Professor – ECE  pgibbons@andrew.cmu.edu

Gibson, Garth  Professor – CS; Courtesy Professor – ECE; Affiliated Faculty – DSSC  garth@cs.cmu.edu

Keywords

Computer architecture, operating systems, file systems, disk arrays

Gligor, Virgil  Professor – ECE; Co-Director – CyLab  (412)-268-9833

Goldstein, Seth  Associate Professor – CSD; Courtesy Professor – ECE  (412)-268-3828

Keywords

Systems Nanotechnology, Programmable Matter, Reconfigurable Computing, Parallel Computing, Compilers, Architecture

Gottron, Norman  Process Engineer – Nanofab  (412)-268-4205

Greenfield, Anissa  Manager, Sponsored Research Administration – ECE  (412)-268-3114

Greve, David  Professor Emeritus – ECE  (412)-268-3707
Keywords
Semiconductor device physics and semiconductor process technology, sensors

dg07@andrew.cmu.edu

Grieco, Patricia L. Administrative Manager – DSSC (412)-268-6429

Griss, Martin L. Adjunct Professor – ECE (650)-335-2805

Grover, Pulkit Assistant Professor – ECE 412-268-3644

Gruepe, Alan Senior Facilities Manager – ECE (412)-268-2526

Harchol-Balter, Mor Associate Professor – CS; Courtesy Professor – ECE (412)-268-7893

Harding, Meighan Senior Director of Operations – ECE (412)-268-8924

Higgs III, Fred Professor – MechE; Courtesy Professor – ECE (412)-268-2486

Hills, Alex Distinguished Service Professor – EPP; Courtesy Professor – ECE (907)-232-6088

Hilton, Chad Senior Systems & Software Engineer – ECE (412)-268-6037

Hoburg, James Emeritus Faculty – ECE (412)-268-2473

Hoburg@ece.cmu.edu

Keywords
Scheduling of computer systems, workload characterization, heavy-tailed distributions

Harchol@andrew.cmu.edu

Tribology, nanomanufacturing, multi-scale particle flows

ahills@cmu.edu

Research in wireless technology and telecommunications policy

hoburg@ece.cmu.edu

Electromagnetics, electromechanics, electrohydrodynamics, microfluidics
Hoe, James C., Professor – ECE, CS; Co-Director – CALCM, (412)-268-4259, jhoe@cmu.edu

Keywords
Computer architecture, high-level hardware description and synthesis

Hollis, Ralph L., Research Professor – RI; Courtesy Professor – ECE, (412)-268-8264, rhollis@cs.cmu.edu

Keywords
Haptics, microassembly, dynamically stable mobile robots

Hong, Jason, Courtesy Professor – ECE; Associate Professor – CS, jasonh@cs.cmu.edu

Keywords
power systems, optimization, control, energy networks, decomposition

Iannucci, Bob, Director – CyLab Mobility Research Center; Distinguished Service Professor – ECE, Carnegie Mellon Silicon Valley, (650) 714 1200, roberti@andrew.cmu.edu

Keywords
Mobile and embedded computing, scalable systems, sensor networks, emergency communications systems

Ilic, Jovan, Associate Teaching Professor – ECE, (412)-268-3943, jilic@ece.cmu.edu

Keywords
Large-scale systems modeling and simulation; power systems control and pricing algorithms; critical infrastructures/interdependencies

Ishihara, Abe, Courtesy Professor – ECE, abe.ishihara@sv.cmu.edu

Islam, Mohammad F., Assistant Professor – ChemE, MSE; Courtesy Professor – ECE, (412)-268-8999, mohammad@andrew.cmu.edu
Jackson, Collin Adjunct Professor – ECE  
collin.jackson@sv.cmu.edu  
(412) 268-3363

Jahanian, Farnam Vice President for Research – CMU; Courtesy Professor – ECE  
farnam@andrew.cmu.edu

Jayan, B. Reeja Courtesy Professor – ECE  
bjayan@andrew.cmu.edu

Jhon, Myung S Professor – ChemE; Affiliated Faculty – DSSC  
mj3a@andrew.cmu.edu

Jia, Limin Assistant Research Professor – CyLab, INI, ECE  
liminjia@andrew.cmu.edu

Keywords

Language-based security, programming languages, logic and program verification.

Joe-Wong, Carlee Assistant Professor – ECE  
cjoewong@andrew.cmu.edu

Keywords

Network economics and pricing, cloud computing, mobile/edge computing

Jordan, Angel Emeritus University Professor – ECE, RI  
ajordan@cs.cmu.edu

Keywords

Robotics, Innovation, and Software Engineering, focusing on Technological Change and Technology Transfer

Joshi, Gauri Assistant Professor – ECE  
gaurij@andrew.cmu.edu

Keywords

performance analysis, cloud computing, machine learning

Kainerstorfer, Jana Courtesy Professor – ECE  
jkainers@andrew.cmu.edu

Kanade, Takeo U.A. and Helen Whitaker Professor – CS, RI; Courtesy Professor – ECE  
tk@cs.cmu.edu

Keywords

Computer vision, autonomous systems, medical robotics
Kar, Soummya  Associate Research Professor – ECE (412)-268-8962
soumyak@andrew.cmu.edu

Keywords

Distributed Information Processing, Multi-Agent Decision Making, Adaptive Stochastic Systems

Kass, Leona  Director of Student and Academic Affairs – ECE (412)-268-2496
lkass@andrew.cmu.edu

Kavcic, Aleksandar  Adjunct Faculty – ECE akavcic@andrew.cmu.edu

Kelly, Shawn K.  Courtesy Professor – ECE; Senior Systems Scientist – ICES
skkelly@andrew.cmu.edu

Khosla, Pradeep K.  Adjunct Professor – ECE; Chancellor – University of California, San Diego
pkk@ece.cmu.edu

Keywords

agent-based design and control, S/W engineering for real-time systems, distributed robotics, distributed information systems, Secure Embedded Software/Systems, Sensor Networks

Kim, Hyong  Drew D. Perkins  Professor – ECE (412)-268-6491
kim@ece.cmu.edu

Keywords

Advanced switch and network architectures, fault-tolerant network architectures, network management and control

Kimukin, Ibrahim  Research Associate – ECE (412)-268-9013
ikimukin@andrew.cmu.edu

Kitani, Kris  Courtesy Professor – ECE; Assistant Research Professor – RI
kmkitani@andrew.cmu.edu

Knickerbocker, Kara  Administrative Coordinator – ECE (412)-268-2389
krk@andrew.cmu.edu

Kochhar, Abhay  Research Scientist – ECE (412)-268-8013
askochha@andrew.cmu.edu

Koeske, Matt  Research Administrator – ECE (412)-268-7293
koeske@ece.cmu.edu

Kompalli, Suryaprakash  Assistant Teaching Professor – ECE +250 78 484 08 55
skompall@andrew.cmu.edu
Koopman, Philip
Associate Professor – ECE, CS
(412)-268-5225
koopman@cmu.edu

Keywords
distributed embedded systems, survivable system architecture, dependability

Kovačević, Jelena
Hamerschlag
University Professor – ECE; University Professor – BME
(412) 268-3299
jelenak@cmu.edu

Keywords
Signal processing, biomedical, wavelets, frames, multiresolution, communications

Kozuch, Michael A.
Adjunct
Professor – ECE
mkozuch@andrew.cmu.edu

Krogh, Bruce H.
Professor – ECE
(412)-268-2472
krogh@ece.cmu.edu

Keywords
Synthesis and verification of embedded control software, distributed control strategies, distributed supervisory control, information and control in wireless sensor networks, discrete event and hybrid dynamic systems

Kryder, Mark
Emeritus University Professor – ECE; Affiliated Faculty – DSSC
(412)-268-3513
kryder@ece.cmu.edu

Keywords
Magnetic recording, optical recording and ferroelectric materials

Kumar, Swarun S.
Assistant Professor – ECE
412-268-1892
swarun@cmu.edu

Kurpiowski, Matthew
Systems Administrator – ECE
(412) 268-1973
mkurp@andrew.cmu.edu

Lane, Ian R.
Associate Research Professor – ECE
(412)-268-3674
ianlane@cs.cmu.edu

Keywords
Physical and chemical sensors, transducers, MEMS, magnetism, materials, thin films, data storage and RF devices
Laughlin, David ALCOA
Professor – MSE; Courtesy Professor – ECE; Affiliated Faculty – DSSC (412)-268-2706
dl0p@andrew.cmu.edu

Keywords
Magnetic materials, material science, electron microscopy, x-ray diffraction

Leathers, Diana Administrative Coordinator – ECE diana.leathers@sv.cmu.edu

Lehman, Philip ECE/SCS Office of Engagement and Annual Giving – ECE pll@andrew.cmu.edu

Li, Ming Adjunct Professor – ECE mingli1@andrew.cmu.edu

Li, Xin Adjunct Faculty – ECE (412)-268-6507 xinli@ece.cmu.edu

Keywords
Integrated circuits, computer-aided design

Lindenfelser, Karen Administrative Manager – PDL; Administrative Coordinator – ECE karen@ece.cmu.edu

Lohn, Jason D. Adjunct Faculty – ECE (650)-335-2802 jason.lohn@sv.cmu.edu

Low, Tze Meng Assistant Research Professor – ECE (412) 268-6756 lowt@andrew.cmu.edu

Lucia, Brandon Assistant Professor – ECE (412) 268-3587 blucia@ece.cmu.edu

Lynch, Aydaen Principal Systems and Software Engineer – ECE (412)-268-5818 alynch@ece.cmu.edu

Mahouski, Michelle Academic Services Coordinator – ECE (412)-268-4951 mmahousk@andrew.cmu.edu

Mai, Ken Principal Systems Scientist – ECE (412)-268-8335 kenmai@ece.cmu.edu

Keywords
Digital circuit design, computer architecture, memory design, reconfigurable computing

Majetich, Sara A. Professor – Physics; Courtesy Professor – ECE; Affiliated Faculty – DSSC sm70@andrew.cmu.edu

Maly, Wojciech Professor Emeritus – ECE (412)-268-6637 maly@ece.cmu.edu
Keywords

Computer-aided design and manufacturing of VLSICs

Marculescu, Diana  David Edward  (412)-268-1167
Schramm Professor – ECE; Associate Department Head for Academic Affairs – ECE
dianam@ece.cmu.edu

Keywords

VLSI/computer architecture, energy aware computing, CAD for integrated systems

Marculescu, Radu  Professor – ECE  (412)-268-8710
radum@ece.cmu.edu

Keywords

Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.

Mattingly, Chloe  Administrative Coordinator – DSSC, ECE  (412)-268-2650
chloem@andrew.cmu.edu

Maxion, Roy  Research Professor – CS; Courtesy Professor – ECE  (412)-268-7556
maxion@cs.cmu.edu

Keywords

Computer dependability and security; information warfare; intrusion detection; system diagnosis

McCarthy, Jillian  M.S. Academic Program Advisor – ECE (412) 268-3077
jrmccart@andrew.cmu.edu

McHenry, Michael E.  Professor – MSE; Affiliated Faculty – DSSC  (412)-268-2703
mm7g@andrew.cmu.edu

McKinney, Jim  IT Manager – ECE  (412)-268-5141
jmck@ece.cmu.edu

Mehdizadeh, Emad  Post Doctoral Research Associate – ECE  emehdiza@ece.cmu.edu

Mengshoel, Ole  Principal Systems Scientist – ECE ole.mengshoel@sv.cmu.edu

Metcalfe, David  Senior Linux Engineer – ECE  dmetcalf@andrew.cmu.edu

Miskov-Zivanov, Natasa Adjunct Faculty – ECE  nmiskov@andrew.cmu.edu

Moe, Tara  Director of Graduate Affairs – ECE  taramoe@ece.cmu.edu
Mohimani, Hosein Courtesy Professor – ECE; Assistant Professor – CBD

Moneck, Matthew Executive Manager, ECE Nanofabrication Facility – Nanofab; Research Scientist – DSSC

Morchower, Bari Student Organizations and Activities Advisor – ECE

Morgan, Granger Professor – ECE; Lord Professor – EPP

Morris, James Professor – CS; Courtesy Professor – ECE

Moura, José Associate Department Head - Research & Strategic Initiatives – ECE; Philip L. and Marsha Dowd University Professor – ECE, BME; Affiliated Faculty – DSSC

Moutis, Panayiotis Post Doctoral Research Associate – ECE

Mowry, Todd Professor – CS; Courtesy Professor – ECE; Co-Director – CALCM

Moya, Linda Assistant Teaching Professor – ECE, SDS

Mukherjee, Tamal Professor – ECE

Mutlu, Onur Adjunct Professor – ECE

Keywords
Technology and policy including climate change and electric power

Communications, statistical signal/image, video, and multimedia processing, wavelet transforms

Analog/RF/MEMS/biofluidic microsystem design
Keywords

Computer architecture, hardware/software interaction, operating systems, fault tolerance

Nace, Bill
Associate Teaching Professor – ECE
(412)-268-7027
wnace@cmu.edu

Keywords

Digital Design, Embedded Systems, Networks
Narasimhan, Priya
Professor – ECE
(412)-268-8801
priya@cs.cmu.edu

Keywords

fault tolerance, distributed systems, embedded systems, mobile systems
Narasimhan, Srinivasa
Associate Professor – RI; Courtesy Professor – ECE
412-268-1199
srinivas@andrew.cmu.edu

Keywords

computational sensors, computer graphics, computer vision, image processing, optics
Negi, Rohit
Professor – ECE; Affiliated Faculty – DSSC
(412)-268-6264
negi@ece.cmu.edu

Keywords

Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory
Nguyen, Kimmy
Event and Project Coordinator – ECE
(412) 268-7138
myn@andrew.cmu.edu

Noh, Hae Young
Assistant Professor – CEE; Courtesy Professor – ECE
noh@cmu.edu

Keywords

Scientific computing, parallel computing, computational database systems, and virtualization

O’Hallaron, David
Professor – CS, ECE; Director – Intel Research Pittsburgh
(412)-268-8199
droh@cs.cmu.edu
Oliver, Megan Academic Services Coordinator – ECE 412-268-5621 mvoliver@andrew.cmu.edu

Ozdoganlar, O. Burak Affiliated Faculty – DSSC; Associate Professor – MechE (412)-268-9890 ozdoganlar@cmu.edu

Ozdoganlar, Neslihan M.S. Academic Program Advisor – ECE (412)-268-6581 neslio@andrew.cmu.edu

Péraire, Cécile Assistant Teaching Professor – ECE cecile.peraire@sv.cmu.edu

Püschel, Markus Adjunct Professor – ECE (412)-268-3804 pueschel@ece.cmu.edu

Keywords

Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)

Pagliarini, Samuel Senior Research Scientist – ECE spagliar@ece.cmu.edu

Palko, Adam Finance and Research Administrator – ECE (412)-268-2188 apalko@ece.cmu.edu

Pandey, Manish Adjunct Faculty – ECE mpandey@andrew.cmu.edu

Paramesh, Jeyanandh Associate Professor – ECE (412)-268-1290 paramesh@ece.cmu.edu

Keywords

Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RF IC design

Parno, Bryan Associate Professor – CSD, ECE (412) 268-2033 parno@cmu.edu

Pasareanu, Corina Senior Research Scientist – ECE-SV (650)-604-4767 pcorina@andrew.cmu.edu

Patterson, Carolyn Administrative Coordinator – ECE carol@ece.cmu.edu

Patton, Ashley Director of Engagement and Annual Giving – ECE awpatton@andrew.cmu.edu

Pavlo, Andy Courtesy Professor – ECE pavlo@cs.cmu.edu

Peha, Jon Professor – EPP; Courtesy Professor – ECE (412)-268-7126 peha@ece.cmu.edu

Keywords

Telecommunications, wireless networks, internet, spectrum management,
communications for homeland security, electronic commerce, developing countries, universal service, security

**Perrig, Adrian** Adjunct Professor – ECE; Professor – EPP, CS; Technical Director – CyLab
adrian@ece.cmu.edu

**Keywords**

Information and systems security, focusing on network security (internet, mobile computing, and sensor networks) as well as on trusted computing.

**Phelps, Shelley** Finance and Business Associate – ECE
sphelps@andrew.cmu.edu

**Piazza, Gianluca** (Gian) Professor – ECE; Director – Nanofab
piazza@ece.cmu.edu

**Keywords**

MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

**Pileggi, Larry** Tanoto Professor – ECE
pileggi@ece.cmu.edu

**Keywords**

Design, implementation and modeling of electronic integrated systems

**Platzer, Andre** Assistant Professor – CS, ECE
aplatzer@cs.cmu.edu

**Keywords**

Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods

**Popli, Nipun** Post Doctoral Research Associate – ECE
npopli@ece.cmu.edu

**Keywords**

Racko, Angela Finance and Business Associate – ECE
amracko@andrew.cmu.edu
Rajkumar, Raj
Professor – ECE, CS; Co-Director – GM-CM CRL; Director – Real-Time and Multimedia Systems Laboratory
(412)-268-8707
raj@ece.cmu.edu

Keywords
Embedded and real-time systems

Ramakrishnan, Bhiksha Raj
Courtesy Professor – ECE; Associate Professor – LTI
bhiksha@cs.cmu.edu

Reddy, Raj
Courtesy Professor – ECE; Mozah Bint Nasser University Professor – CS
reddy@cs.cmu.edu

Reyes, Brittany
Academic Services and Student Organizations Coordinator – ECE
bjreyes@andrew.cmu.edu

Ricketts, David
Adjunct Professor – ECE
ricketts@ece.cmu.edu

Keywords
Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

Risley, Mason
Process Engineer – Nanofab
mrisley@andrew.cmu.edu

Rohrer, Ronald A.
Professor Emeritus – ECE
rohrer@ece.cmu.edu

Keywords
Electronic circuits, systems design automation

Rosvanis, James
Nanofab Technician – Nanofab
(412)-268-1375
rosvanis@andrew.cmu.edu

Rowe, Anthony
Associate Professor – ECE
(412)-268-4856
agr@ece.cmu.edu

Keywords
Embedded systems, distributed systems, sensor networks

Rutenbar, Rob A.
Adjunct Professor – ECE
rutenbar@ece.cmu.edu

Keywords
VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition

Salvador, Paul A.
Associate Professor – MSE; Affiliated Faculty – DSSC
(412)-268-2702
paul7@andrew.cmu.edu
Sankaranarayanan, Aswin  Assistant Professor – ECE  (412)-268-1087  saswin@ece.cmu.edu
Santhanam, Suresh  Principal Process Engineer – ECE  (412)-268-2026  ss9s@andrew.cmu.edu
Satyanarayanan, Mahadev  Carnegie Professor – CS; Courtesy Professor – ECE  (412)-268-3743  satya@cmu.edu
Savvides, Marios  Research Professor – ECE; Director – CyLab Biometrics Center  (412)-268-1142  marioss@andrew.cmu.edu

Keywords
Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

Schlesinger, T.E. (Ed)  Adjunct Professor – ECE  ed@ece.cmu.edu

Keywords
Semiconductor devices, information storage, optoelectronic systems

Schneider, Jeff  Research Professor – RI; Courtesy Professor – ECE  jeff4@andrew.cmu.edu
Scott, Stephanie  Academic Program Advisor – ECE  (650)-335-2853  scottsm@andrew.cmu.edu
Sekar, Vyas  Assistant Professor – ECE  vsekar@ece.cmu.edu

Keywords
Networking, Security, Systems, Software-defined networking, Internet-of-Things security

Serafin, Stephen  Senior Systems Engineer – ECE  (412)-268-5716  sserafin@ece.cmu.edu
Seshan, Srinivasan  Associate Professor – CS; Courtesy Professor – ECE  (412)-268-8734  srini@cmu.edu

Keywords
Network protocols, applications, distributed systems, mobile computing, wireless networks

Shah, Nihar  Assistant Professor – MLD, CSD;Courtesy Professor – ECE  nihars@andrew.cmu.edu
Shen, John  Professor – ECE  jpshen@cmu.edu
Keywords

Modern superscalar processor design, instruction-level parallelism and code scheduling

Siewiorek, Daniel Buhl University Professor – HCII, ECE, CSD (412)-268-2570 dps@ece.cmu.edu

Keywords

Computer architecture, reliability, context aware mobile computing

Singh, Rita Courtesy Professor – ECE; Senior Systems Scientist – LTI (412)-268-9432 rsingh@andrew.cmu.edu

Sinopoli, Bruno Professor – MechE, ECE, RI (412)-268-3436 brunos@ece.cmu.edu

Keywords

Networked embedded control systems, sensors/actuators networks, control theory

Sirbu, Marvin Professor – EPP; Courtesy Professor – ECE (412)-268-3436 sirbu@cmu.edu

Keywords

Telecommunications policy and economics

Sitti, Metin Professor – MechE, RI; Courtesy Professor – ECE; Affiliated Faculty – DSSC (412)-268-3632 sitti@cmu.edu

Keywords

Micro/nano-robotics, biologically inspired systems, nanotechnology, MEMS/NEMS

Skovira, Holly Senior Administrative Coordinator – ECE (412) 268-8162 hskovira@andrew.cmu.edu

Skowronski, Marek Courtesy Professor – ECE; Professor – MSE; Affiliated Faculty – DSSC (412)-268-2710 ms3s@andrew.cmu.edu

Smailagic, Asim Courtesy Professor – ECE; Research Professor – ICES; Director – LINCS (412)-268-7863 asim@ices.cmu.edu

Keywords

Mobile computing, computer architecture, system design methods, wearable computers
Smith Jr., Robert E. Senior Windows Systems Engineer – ECE  (412)-268-6033
robsmith@cmu.edu

Smitley, Brandon Linux Engineer – ECE  412-268-5716
bsmitley@andrew.cmu.edu

Smola, Alex Professor – MLD; Courtesy Professor – ECE  (408) 759-1044
smola@andrew.cmu.edu

Smolaski, Nathan Ph.D. Academic Program Advisor – ECE  412-268-3200
nsmilesk@andrew.cmu.edu

Sokalski, Vincent Assistant
Research Professor – MSE; Affiliated Faculty – DSSC
(412)-268-8628
vsokalsk@andrew.cmu.edu

Song, Dawn Adjunct Professor – ECE  xds@andrew.cmu.edu

Sreenath, Koushil Courtesy Professor – ECE; Assistant Professor – RI
koushils@andrew.cmu.edu

Stancil, Daniel Adjunct Professor – ECE  ddstancil@ncsu.edu

Keywords
Wireless communications, nanophotonics, spin wave devices

Steenkiste, Peter Professor – ECE, CS  (412)-268-3261
prs@cs.cmu.edu

Keywords
Computer networks, distributed systems, pervasive computing

Stern, Richard Professor – ECE, LTI, CS, BME; Lecturer – Music
rms@ece.cmu.edu

Keywords
Automatic speech recognition, auditory perception, signal processing

Stevens, Dave Facilities Assistant – ECE  412-268-2470
daves@andrew.cmu.edu

Stevenson, Kayleigh Finance and Business Associate – ECE  (412)-268-8745
kayleigh@ece.cmu.edu

Strojwas, Andrzej Keithley Professor – ECE  (412)-268-3530
ajs@ece.cmu.edu

Keywords
Statistically based CAD/CAM of VLSI circuits

Sullivan, Tom Associate Teaching Professor – ECE; Lecturer – Music  (412)-268-3351
tms@ece.cmu.edu

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### Audio signal processing, music and sound recording applications

**Sundar, Vignesh** Post Doctoral Research Associate – DSSC  
E-mail: vigneshs@andrew.cmu.edu

### Network security; Wireless networking

**Tague, Patrick** Associate Research Professor – CyLab, INI, ECE  
E-mail: patrick.tague@sv.cmu.edu  
Phone: (650)-335-2827

### Autonomous agents, distributed control, power systems, cascading failures

**Talukdar, Sarosh** Professor Emeritus – ECE  
E-mail: talukdar@ece.cmu.edu

### Computer-aided design of single chip heterogeneous multiprocessing systems

**Tims, Joshua** Systems Administrator – ECE  
E-mail: jtims@ece.cmu.edu  
Phone: (412)-268-5888

### Optical networks, wireless networks and communications systems, and high-speed networking

**Towe, Elias** Professor – ECE; Albert and Ethel Grobstein Memorial Professor – MSE; Director – CNXT  
E-mail: towe@cmu.edu  
Phone: (412)-268-8091
Keywords
Photonics, optical networks, biophotonics, sensors, quantum phenomena in optical materials.

Treuille, Adrien Crafted by Courtesy Professor – ECE; Assistant Professor – CS
treuille@cs.cmu.edu

Ustun, Taha Selim Assistant Teaching Professor – ECE +250 78 659 24 78
tahas@andrew.cmu.edu

Keywords
Power Systems Protection, Communication in Power Networks, Distributed Generation, Microgrids and Smartgrids

Veloso, Manuela Professor – CS; Courtesy Professor – ECE
mmv@cs.cmu.edu

Verissimo, Paulo Adjunct Professor – ECE pjv@di.fc.ul.pt

Veras, Richard Post Doctoral Research Associate – ECE rveras@andrew.cmu.edu

Vernon, David Teaching Faculty – ECE +250 78 592 74 70
vernon@cmu.edu

Vidal Alvarez, Gabriel Post Doctoral Research Associate – ECE gvidal@andrew.cmu.edu

Vieira, Deb Senior Multimedia Designer – ECE (412)-268-5032
debraost@ece.cmu.edu

Vinayak, Rashmi Assistant Professor – CSD; Courtesy Professor – ECE rvinayak@cs.cmu.edu

Wang, Kai Adjunct Professor – ECE wangkai@andrew.cmu.edu
Wasserman, Anthony Adjunct Professor – ECE (650)-335-2807
tonyw@cmu.edu

Weiler, Mark Equipment Manager, Nanofabrication Facility – ECE mweiler@andrew.cmu.edu

Weiss, Lee Courtesy Professor – ECE; Research Professor – RI lew@andrew.cmu.edu

Weldon, Jeffrey Associate Professor – ECE (412)-268-6940
jweldon@ece.cmu.edu

Keywords
Nanoelectronics, Heterogeneous Integration, RF and Analog Integrated
Circuits, Biomedical Electronics, Carbon Nanotubes, Graphene

Wen, Tianlong Post Doctoral Research Associate – Physics, DSSC (412)-268-2319
White, Robert M. Emeritus University Professor – ECE, EPP; Affiliated Faculty – DSSC white@ece.cmu.edu

Keywords
Magnetic nanotechnology

Will, Regis Senior Systems Engineer – ECE (412)-268-3126 rwill@andrew.cmu.edu
Woodhead, Vickie Undergraduate Advisor – ECE (412) 268-4425 woodhead@ece.cmu.edu

X
Xu, Yinliang Adjunct Professor – ECE danielxu@andrew.cmu.edu

Y
Yagan, Osman Assistant Research Professor – ECE (412) 268-3976 oyagan@ece.cmu.edu

Keywords
Wireless communications, network science, security, social networks, cyber-physical networks

Ydstie, B. Erik Professor – ChemE; Courtesy Professor – ECE (412)-268-2235 ydstie@andrew.cmu.edu
Ye, Terry Adjunct Professor – ECE (412) 268-5401 terryye@ece.cmu.edu

Yichye, Shahar Cleanroom Construction Protocol Manager – ECE syichye@andrew.cmu.edu
Yu, Byron Associate Professor – ECE; Assistant Professor – BME (412)-268-9658 byronyu@cmu.edu

Keywords
Neural signal processing, machine learning approaches in neuroscience, neural prosthetic systems

Yu, Zhiyi Adjunct Professor – ECE zhiyi@ece.cmu.edu

Keywords
Multi-core processors, Network-on-chip, Digital VLSI
Z

Zhang, Hui  Professor – CS; Courtesy Professor – ECE
(412)-268-8945
hzhang@cs.cmu.edu

Keywords

Computer networks, internet, resource management, multimedia

Zhang, Jia  Associate Teaching Professor – ECE
jia.zhang@sv.cmu.edu

Zhang, Joy  Adjunct Professor – ECE
(650)-335-2824
joy@cs.cmu.edu

Zhang, Pei  Associate Research Professor – ECE
(650)-335-2823
peizhang@cmu.edu

Keywords

Sensor Networks, Embedded Systems

Zhu, Jimmy  ABB Professor – ECE; Professor – MSE, Physics; Director – DSSC
(412)-268-8373
jzhu@ece.cmu.edu

Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording

Ziccardi, Chad  Principal Systems Engineer – ECE
(412)-268-4453
ziccardi@ece.cmu.edu

Zurcher, Elaine  Systems Administrator – ECE
(412)-268-1210
egadd@ece.cmu.edu